

CHERKINSKIY, S.N., prof.; DIKUN, P.P., kand.fiziko-matem.nauk; YAKOVLEVA, G.P.,  
aspirant

Investigation of carcinogenic substances in sewage from certain  
industries. Gig. i san. 24 no.9:11-14 S '59. (MIRA 13:1)

1. Iz kafedry kommunal'noy gigiyeny I Moskovskogo ordena Lenina medi-  
tsinskogo instituta imeni I.M. Sechenova i laboratorii eksperimental'-  
noy onkologii Instituta onkologii AMN SSSR. 2. Chlen-korrespondent AMN  
SSSR (for Cherkinskiy).

(CARCINOGENS)

(SEWAGE chem.)

DMITRIYEV, N.Z.; DIRUN, P.P.

Pollution of air by 3,4-benzopyrene in Kalinin. Gig. i san. 24 no.9:  
77 S '59. (MIRA 13:1)

1. Iz kafedry gigiyeny Kalininskogo meditsinskogo instituta i Instituta  
onkologii AMN SSSR.  
(KALININ--AIR--POLLUTION) (BENZOPYRENE)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9

VOLKOVA, N.V.; DIKUN, P.P.; MASOL'NIKOVA, T.K.

Aerosols and carcinogenic substances in the air of cities.  
Trudy LSGMI no. 58:136-148 '60. (MIRA 14:11)  
(LENINGRAD—AIR POLLUTION) (CARCINOGENS)  
(AEROSOLS)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9"

GORELOVA, N.D.; PIKUN, P.P.; SOLINEK, V.A.; YEMASHANOVA, A.V.

Amount of 3,4-benzopyrene in fish smoked by different methods.  
Vop. onk. 6 no. 1:33-37 '60. (MIRA 13:10)  
(BENZOPYRENE) (FISH, SMOKED)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9

DIKUN, P.P.

Presence of 3,4-benzopyrene in the air of living quarters. Vop.  
onk. 6 no. 2:84-86 F '60. (MIRA 14:2)  
(BENZOPYRENE) (AIR- POLLUTION)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9"

DIKUN, P.P.

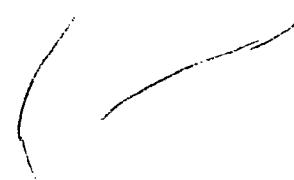
Use of ultrastructures of fluorescent spectra in the determination  
of carcinogenic substances. Vop. onk. 6 no. 11:75-83 N :60.  
(MIRA 14:1)  
(CARCINOGENS)

DIKUN, P.P.

Some data on the study of cigarette filters. Nauch. inform.  
Otd. nauch. med. inform. AMN SSSR no.1:73 '61 (MIRA 16:11)

Quantitative determination of 3,4-benzopyrene according to  
the fine structure of the fluorescence spectrum. Ibid.:74

1. Institut onkologii (direktor - deyavstvitel'nyy chlen AMN  
SSSR prof. A.I. Serebrov) AMN SSSR, Leningrad.



\*

SHABAD, L. M.; DIKUN, P. P.

Studies on 3,4-benzopyrene (a carcinogenic hydrocarbon) in the human environment. Vop. klin. lech. zlok. novoobraz. 7:119-127, 161.

1. Institut onkologii AMN SSSR (dir.-<sup>+</sup> deystv. chl. AMN SSSR prof. A. I. Serebrov).

(BENZOPYRENES) (AIR POLLUTION)

DIKUN, P. F.

Quantitative determination of small concentrations of 3,4-benzo-pyrene by means of the thin structure of a fluorescence spectrum.  
Vop. onk. 7 no.7:42-53 '61. (MIRA 15:2)

1. Iz laboratorii eksperimental'noy onkologii (zav. - zasl. deyatel' nauki prof. N. V. Lazarev) Instituta onkologii AMN SSSR (dir. - deystv. chl. AMN SSSR prof. A. I. Serebrov)

(BENZOPIRENE) (SPECTROPHOTOMETRY)

S/081/62/000/010/003/085  
B158/B144

AUTHOR: Dikun, P. P.

10 TITLE: Fine structure of fluorescence spectra of monomethyl  
derivatives of 1,2-benzanthracene

15 PERIODICAL: Referativnyy zhurnal. Khimiya, no. 10, 1962, 14, abstract  
10B65 (Vopr. onkologii, v. 7, no. 10, 1961, 64-73)

20 TEXT: An examination is made of the fluorescence spectra (F) of 12 mono-  
methyl derivatives of 1,2-benzanthracene using Shpol'skiy's method  
(RZhKhim, no. 4, 1957, 10868) (in n-hydrocarbon solutions at the temperature  
of liquid nitrogen). Fine structure spectra were obtained for 1'-, 4'-,  
4-, 5-, 8-, 9-, and 10-methyl-1,2-benzanthracenes in solutions of hexane  
and octane. The F spectrum of 2'-methyl-1,2-benzanthracene has a well-  
defined structure in heptane and octane, and so has that of the 6-methyl  
derivative in hexane. Thus, the fine structure depends essentially on the  
position of the substituted group in the molecule. Spectra of all methyl  
substitutes of 1,2-benzanthracene are distinguished by the type of fine  
structure, which is a reliable criterion for the identification of these

Card 1/2

Fine structure of...

S/081/62/000/010/003/085  
B158/B144

compounds. The positions of the most characteristic lines of the F spectra are given. [Abstracter's note: Complete translation.] ✓

Card 2/2

GORELOVA, N.D.; DIKUN, P.P.

Content of 3,4-benzopyrene in fish smoked with the aid of smoke  
generators of various types. Vop.onk. 7 no.12:71-73 '61.  
(MIRA 15:1)

1. Iz laboratorii eksperimental'noy onkologii (zav. - zasl.  
deyatel' nauki RSFSR prof. N.V. Lazarev) Instituta onkologii  
AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I.  
Serebrov).

(FISH, SMOKED) (BENZOPYRENE) (CARCINOGENS)

DIKUN, P.P.

Cancerogenic substances in food products. Trudy Inst.onk.AMN SSSR  
no.4:139-154 '62. (MIRA 15:9)  
(CARCINOGENS) (FISH, SMOKED) (MEAT, SMOKED)

DIKUN, P. P.; KRASNITSKAYA, N. D.; CHUSHKIN, S. G.

Some data on the content of 3,4-benzopyrene in tobacco smoke.  
Vop. onk. 8 no.2:31-35 '62. (MIRA 15:2)

1. Iz laboratorii eksperimental'noy onkologii (zav. - zasl. deyat. nauki, prof. N. V. Lazarev) Instituta onkologii AMN SSSR (dir. - deystv. chl. AMN SSSR, prof. A. I. Serebrov). Adres avtorov: Leningrad, P-129, Institut onkologii AMN SSSR.

(CIGARETTE SMOKE) (BENZOPYRENE)

SERE BROV, A.I.; DIKUN, P.P. (Leningrad)

Ways for the prevention of pulmonary and gastric cancer. Klin.  
med. 40 no.6:7-15 Je '62. (MIRA 15:9)

1. Iz Instituta onkologii AMN SSSR.  
(LUNGS—CANCER) (STOMACH—CANCER)

GORELOVA, N.D.; DIKUN, P.P.; GRETSKAYA, O.P.; YEMSHANOVA, A.V.

Content of 3,4-benzopyrene in sprat smoked with the friction smoke generator or the PSM smoke generator of the All-Union Scientific Research Institute of Marine Fisheries and Oceanography. Vop. onk. 9 no.8:77-80 '63 (MIRA 17:4)

1. Iz laboratorii eksperimental'noy onkologii (zav. - zasluzhennyy deyatel' nauki prof. N.V. Lazarev) Instituta onkologii AMN SSSR (dir. - deyystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov) i tekhnologicheskoy laboratorii (zav. - N.A. Semenov) Nauchno-issledovatel'skogo instituta mekhanizatsii rybnoy promyshlennosti (dir. - P.A. Kuraptsev). Adres avtorov: Leningrad, F-129 Institut onkologii AMN SSSR (for Gorelova, Dikun); Leningrad, prospekt Moskvinoi, Institut mekhanizatsii rybnoy promyshlennosti (for Gretskaya, Yemshanova).

S/048/63/027/001/005/043  
B163/B180

AUTHOR: Dikun, P. P.

TITLE: Study of the fine structure of fluorescence spectra of a number of polycyclic aromatic hydrocarbons, as a method of analyzing for carcinogenic compounds

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 27, no. 1, 1963, 9-11

TEXT: The concentration of polycyclic aromatic hydrocarbons can be accurately determined by comparing the intensities of single fluorescence lines with internal standards. Shpol'skiy's method (Dokl. AN SSSR, 87, 935 (1952) and Izv. AN SSSR, ser. fiz. 20, 471 (1956)) is used to study the fluorescence spectra of the following compounds: 1,2 benzanthracene and all its methyl homologs, 2 dimethyl homologs and 13 of its mono- and di-substituted derivatives, 3,4 benzphenanthrene and all its 6 mono-methyl homologs, a number of mono - methyl - homologs of pyrene, fluoranthrene, and benzfluoranthrene, cholanthrene and 20-methyl - cholanthrene, 1,2 benzpyrenes and some other polycyclic hydrocarbons. The fluorescence Card 1/2

Study of the fine structure of ...

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B163/B180

spectra were taken in a UVT-51 (ISP-51) spectograph at liquid nitrogen temperature. n-hexane, n-heptane, n-octane, n-nonane, n-undecane, and n-dodecane were used as solvents. Where there was a fine structure, the wavelengths of the most intense and characteristic lines were measured. The majority of non-substituted polycyclic hydrocarbons have a typical fine structure by which they can be identified. The only exception is 3,4 benzphenanthrene which has none in any of the 6 solvents. In the substituted compounds of this class a fine structure is found less frequently than in the nonsubstituted ones. Both the existence and definition of a fine structure depend on the type of substituting group and its position in the molecule. In 1,2 benzanthracene for instance, it is best in the methyl-substitutes. But the methyl homologs do not always have a fine structure, in several it was completely absent. From shale tar, about 100 fractions, some not yet identified, have a fluorescence spectrum with fine structure. This paper was presented at the 14th Conference on Spectroscopy in Gor'kiy, July 5-12, 1961.

ASSOCIATION: Institut onkologii Akademii meditsinskikh nauk SSSR  
(Institute of Oncology of the Academy of Medical Sciences  
Card 2/2 USSR)

DIKUN, P.P., kand.fiziko-matematicheskikh nauk; MAKHINENKO, A.I., kand.  
med.nauk

Content of 3,4-benzopyrene in the sewage and in the water reservoir  
of the combine "Slantsy". Gig. i san. 28 no.1:10-12 Ja'63.

(MIRA 16:7)

1. Iz Instituta onkologii AMN SSSR i kafedry kommunal'noy gigiyeny  
Leningradskogo sanitarno-gigiyenicheskogo instituta.  
(PLYUSSA RIVER-WATER-POLLUTION)

DIKUN, P.P. (Leningrad)

Spectral analysis data on carcinogenous hydrocarbons in sausages  
and smoked fish products. Vop. pit. 24 no.1:31-35 Ja-F '65.  
(MIRA 18:9)

1. Institut onkologii AMN SSSR, Leningrad.

DIKUN, P.P.

Detection of polycyclic hydrocarbons in smoked fish by fine  
structure of fluorescent spectra. Vop. onk. 11 no.2,77-84  
'65. (MIRA 18:7)

1. Iz laboratorii eksperimental'noy onkologii (zav. - zasluzhennyy  
deyatel' nauki prof. N.V. Lazarev) Instituta onkologii AMN SSSR  
(direktor deystvitel'nyy chlen AMN SSSR prof. A.T. Serebrev).

GORELOVA, N.D.; DIKUN, P.P.

3,4-Benzopyrene content in paraffin of various degrees of  
purification. Vop. onk. 11 no.3:115-116 '65.

(MIRA 18:6)

1. Iz laboratorii eksperimental'noy onkologii (zav. - zaslu-  
zhennyy deyatel' nauki prof. N.V. Lazarev) Instituta onkologii  
AMN SSSR (dir. -- deystvitel'nyy chlen AMN SSSR prof. A.I. Se-  
rebrov), Moskva.

DIKUN, P.P.; KALININA, I.A.; KRASNITSKAYA, N.D.; TOKOVY, V.A.

Absorption of 3,4-benzopyrene from tobacco smoke by various filtering materials. Vop. onk. 11 no.6:86-89 '65.

(MIRA 18:8)

1. Iz laboratorii eksperimental'noy onkologii (zav. - zasluzhennyy deyatel' nauki prof. N.V.Lazarev) Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I.Serebrov).

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CIA-RDP86-00513R000410410002-9

NUGMANOV, S.N.; GORELOVA, N.D.; DIKUN, S.P.

3,4-Benzopyrene content of Home-smoked products in Kazakhstan.  
Vop.onk. 7 no.2:41-43 '61. (MIRA 14:5)  
(BENZOPYRENE) (KAZAKHSTAN—MEAT, SMOKED)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9"

EXCERPTA MEDICA Sec. 12 Vol.11/11 Ophthalmology Nov57.  
DIKUN V.N.

1770. DIKUN V. \*intrachamber forceps for the removal of  
amagnetic foreign bodies from the eye (Russian text)  
VESTN.OFTAL. 1957, 1 (42-43)

A forceps was constructed by the author for the removal of amagnetic foreign bodies from the anterior chamber, also from the vitreous. It was first tried on ten rabbits in which copper and aluminium particles were introduced into the anterior chamber. The new forceps is described in detail. The advantage of the forceps, which has several branches and which was made from syringe needles is that the aqueous remains nearly intact during the introduction of the forceps into the anterior chamber, so that it is easier to get hold of the foreign body in the chamber with a nearly normal depth.

Sitchevskaya - New York, N.Y.

L 44725-66 ENT(m)/EWP(v)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/HM/JH

ACC NR:

AR6022165

SOURCE CODE: UR/0137/66/000/003/E021/E021

AUTHOR: Dikun, V. N.

35

ORG: none

B

TITLE: Welding of aluminum-alloy girders

SOURCE: Ref. zh. Metallurgiya, Abs. 3E149

REF SOURCE: Sb. Novoye v tekhnol. svarki stroit. konstruktsiy. M., 1965, 52

TOPIC TAGS: ~~FABRICATED STRUCTURAL METAL, WELDING ELECTRODE,~~  
~~arc welding, consumable electrode welding, aluminum alloy,~~  
~~aluminum girder/AV-Tl alloy~~

ABSTRACT: An experimental aluminum girder with a 36-m span has been made from a thermally strengthened AV-Tl alloy by semiautomatic argo-shielded ~~consumable-electrode arc welding.~~ Welding was performed with d-c current of reversed polarity using a PSG-500 transformer.  
V. Fomenko. [Translation of abstract]

[KP]

SUB CODE: 13/

1C  
Card 1/1

UDC: 621.791.856:669.715:693.8

DIKUN, V.Ya., inzh.

Great possibilities for increasing labor productivity and improving the safety of working conditions. Prom.energ. 15 no.3:  
31-32 Mr '60. (MIRA 13:6)  
(Electric cutouts) (Electric substations)

DIKUNOV, I.

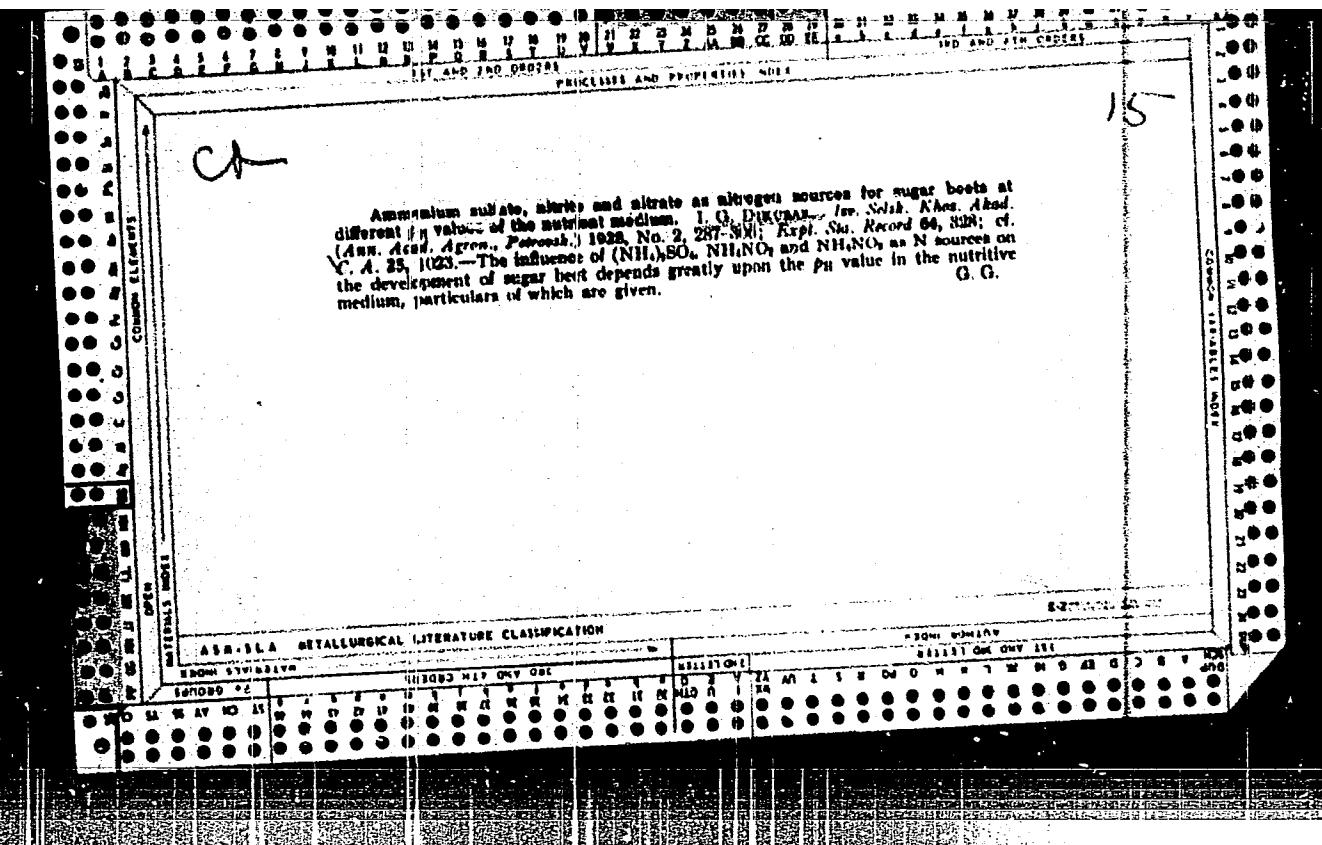
Efficiency Promoter Day in a plant. Izobr.i rats. no.7;21  
Jl '59. (MIRA 12:11)

1. Predsedatel' soveta Vsesoyuznogo obshchestva izobretateley  
i ratsionalizatorov (VOIR) Stalinskogo metallurgicheskogo  
zavoda (g.Stalino).  
(Stalino--Steel industry)

SOKOLOVSKIY, I.D.; SHADRIN, M.P.; DIKUSAR, F.I.; SHCHIPKOV, N.A.

Newspaper subscribers should receive their papers on time. Vest.  
sviazi 24 no.1:18-19 Ja '64. (MIRA 17:3)

1. Predsedatel' gruppy sodeystviya partiyno-gosudarstvennomu  
kontrolyu Donetskogo pochtamta (for Sokolovskiy). 2. Predsedatel'  
gruppy sodeystviya partiyno-gosudarstvennomu kontrolyu Rostovsko-  
go-na-Donu pochtamta (for Shadrin). 3. Nachal'nik Liskinskogo uzla  
svyazi Voronezhskoy oblasti (for Dikusar). 4. Nachal'nik Omskogo  
pochtamta (for Shchipkov).



**Periodicity of mineral nutrition of plants as a factor in improved yield and quality of crops.** I. G. Dikusar, *Chemisation Socialistic Agr.*, 7, No. 17, 29-37 (1938); *Chimie & industrie*, 42, 725. The periodicity of the nutrition of plants is due to the fact that the cycle of the vital development of the plant comprises several stages which differ from one another both as regards the general level of nutrition and as regards the ratio between the various nutritive elements. Mineral nutrition must include all the elements necessary to plant life. The N nutrition, however, exerts a very powerful and varied effect which governs the physiol. condition of the organism as a whole. Judicious dosage of N during the different stages is therefore particularly important. During germination and the early stage of life the nutritional level (especially nitric) must be relatively low. On the contrary, it must be max. during the formation of the aerial organs of the plant.

A. Papineau-Couture

## A.I.E.E.A. METALLURGICAL LITERATURE CLASSIFICATION

**APPROVED FOR RELEASE: 06/12/2000**

CIA-RDP86-00513R000410410002-9"

DIKUSSAR, I. G.

CA

Mineral nutrition and the metabolism of cultivated plants. I. G. Dikusar. *Chemisation Socialistic Agr.* (U. S. S. R.) 1937, No. 10-11, 13-21 (1930); *Chem. Zentr.* 1930, 1, 5801; cf. *C. A.* 34, 20007.—A crit. review of the Russian literature on the proper time and method for the addn. of fertilizer to cultivated plants in relation to the phase of development of the plant. M. G. Moore

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ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SECOND SUBJECT	SECOND MFT ORV USE	CLASSIFICATION	THIRD SUBJECT
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961	962	963	964
965	966	967	968
969	970	971	972
973	974	975	976
977	978	979	980
981	982	983	984
985	986	987	988
989	990	991	992
993	994	995	996
997	998	999	1000

DIKUSAR, I-G

**Response of varieties of kok-saghyz to nutrients.**  
 L. G. Dikusser and A. V. Kalinichevich. *Doklady Akad. Nauk SSSR*, 60, 631-3 (1948); cf. *C.A.* 37, 3120<sup>a</sup>.  
 Two varieties of kok-saghyz: Bulgakov (486 diploid and Navashin tetraploid) were grown from seed on nutrient media with various concns. of N, K and P; after 20 days from planting, addnl. amts. of nutrients were added to give 150% of nutrients specified by Gelriegel mixt. Each vessel with 10 kg. of sand was planted with 3 specimens. The productivity of both varieties changed with changes in the nutrient. Bulgakov was most productive with high K; Navashin with high P. Typical results are: Bulgakov-control (1/4 N:P:K), 22.5 g. rubber; addnl. 1/4 P, 27.14 g. rubber; addnl. 1/4 K, 40.32 g. rubber; addnl. 1/4 P and K, 48.03 g. rubber; addnl. 1/4 N:P:K, 38.8 g. rubber; Navashin—16.5, 39.65, 12.90, 39.65, 21.5 g. rubber, resp. Also, an increased level of protein synthesis was noted in Bulgakov with high P diet and in Navashin with high K diet; similar effect was also observed in the level of sucrose formation.

All-Union Sci. Res. Inst. of Fertilizers, Agrotech and Agr. Soil Study  
im K. K. Gedroyts.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410410002-9"

Country :  
Category :

J

Abs. Jour. : Ref Zhur-Biologiya, No. 12, 1958, No. 53334

Author :  
Institut. :  
Title :

Orig. Pub. :

Abstract : crop during planting) was most effective for the  
orchards and vineyards in Strashenskiy Rayon. --  
G.V. Larin

Card: 2/2

T-1

GENKEL', P.A., prof., otv. red.; MATSYUK, L.S., kand. sel'khoz. nauk, zam. red.; DIMO, N.A., red. [deceased]; DIKUSAR, I.G., doktor sel'khoz. nauk, red.; YAROSHENKO, M.F., doktor biol. nauk, red.; KOVARSKIV, A.Ye., doktor sel'khoz. nauk, red.; ZUBKOV, A.A., doktor med. nauk, red.; PRIMTS, Ya.I., doktor biol. nauk, red.; GEYDEMAN, T.S., kand. biol. nauk, red.; IVANOV, S.M., kand. biol. nauk, red.; USPENSKIY, G.A., kand. biol. nauk, red.; GERGELEZHIIU, A.K., kand. tekhn. nauk, red.; FITOVA, L., red.; KARYAKINA, I., red.; KOCHANOV, N., red.; TEL'FIS, V., tekhn. red.

[Papers of the United Scientific Session of the Department of Biological Sciences of the Academy of Sciences of the U.S.S.R. , the Department of Agriculture of the V.I.Lenin All-Union Academy of Agricultural Sciences and the Moldavian Section of the Academy of Sciences of the U.S.S.R.] Trudy ob"edinennoi nauchnoi sessii: Otdelenie biologicheskikh nauk AN SSSR, Otdelenie zemledeliia VASKhNIL, Moldavskii filial AN SSSR. Kishinev, Kartia Moldoveniaske. Vol.2. 1959. 483 p. (MIRA 15:5)

1. Ob"edinennaya nauchnaya sessiya, Kishinev, 1957. Zamestitel' akademika-sekretarya Otdeleniya biologicheskikh nauk Akademii nauk SSSR (for Genkel'). 2. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Dimo). (Moldavia--Agricultural research--Congresses)

MATSYUK, L.S., otv. red.; VARTICHAN, I.K., red.; GEYDEMAN, T.S., red.;  
DIKUSAR, I.G., red.; ZUBKOV, A.A., red.; IVANCHUK, P.K., red. ;  
KOVARSKIY, A.Ye., red.; KOLESNIKOV, S.M., red.; KONSTANTINOV,  
M.K., red.; MOKHOV, N.A., red.; SAYANOV, V.S., red.; TABUNSHCHIK,  
F.Z., red.; CHEBOTAR', A.A., red.

[Transactions of the First Conference of Young Moldavian Sci-  
entists] Trudy pervoi nauchnoi konferentsii molodykh uchenykh  
Moldavii, 1958. Kishinev, Gos. izd-vo "Kartia Moldoveniaske,  
1960. 390 p. (MIRA 15:3)

1. Nauchnaya konferentsiya molodykh uchenykh Moldavii, 1st,  
1958. 2. Institut biologii Moldavskogo filiala Akademii nauk  
SSSR (for Kolesnikov, Chebotar'). 3. Institut geologii i po-  
leznykh iskopayemykh Moldavskogo filiala Akademii nauk SSSR  
(for Sayanov).

(Moldavia--Science--Congresses)

KANIVETS, I.I., otv. red.; DIKUSAR, I.G., red.; KRUPENIKOV, I.A., red.;  
KHARITONINA, A.A., red.; MEDVICH, M.M., tekhn. red.

[Effectiveness of fertilizers in Moldavia] Effektivnost' udob-  
renii v usloviakh Moldavii. Kishinev, Izd-vo "Shtiintsa,"  
1961. 123 p. (MIRA 16:2)

1. Moldavskiy nauchno-issledovatel'skiy institut pochvovedeniya  
i agrokhimii imeni N.A. Dimo.  
(Moldavia--Fertilizers and manures)

KRUPENIKOV, I.A., otv. red.; DIKUSAR, I.G., red.; ZASLAVSKIY, M.N.,  
red.; LUNEVA, R.I., red.; URSU, A.F., red.; KHARITONINA, A.A.,  
red.; POLONSKIY, S.A., tekhn. red.

[Transactions of the Dokuchaev Conference, commemorating the 60th  
anniversary of the publication of V.V.Dokuchaev's work "Problems  
of the soils of Bessarabia."] Trudy Dokuchaevskoy konferentsii  
posvyashchennoi 60-letiu vykhoda v svet raboty V.V.Dokuchaeva  
"K voprosu o pochvakh Bessarabii," 1960. Kishinev, Izd-vo  
"Shtiintsa, 1961. 222 p. (MIRA 15:7)

1. Dokuchayevskaya konferentsiya, posvyashchennaya 60-letiyu vy-  
khoda v svet raboty V.V.Dokuchayeva "K voprosu o pochvakh Bessa-  
rabii", 1960. 2. Pochvennyy institut imeni N.A.Dimo , Moldaviya  
(for Krupenikov, Zaslavskiy, Luneva, Ursu).  
(Moldavia--Soils)

BELKIN, N.I.; DIKUSAR, I.G., prof., doktor sel'khoz.nauk,red.; DRYAKHLOVA,V.I.,  
red.; POLONSKIY, S.A., tekhn. red.

[Winter hardiness of plants] Zimostoitkost' rastenii; faktory zimo-  
stoikosti. Kishinev, Izd-vo "Shtiintsa" Moldavskogo filiala Akad.  
nauk SSSR, 1961. 279 p. (MIRA 14:10)  
(Plants--Frost resistance)

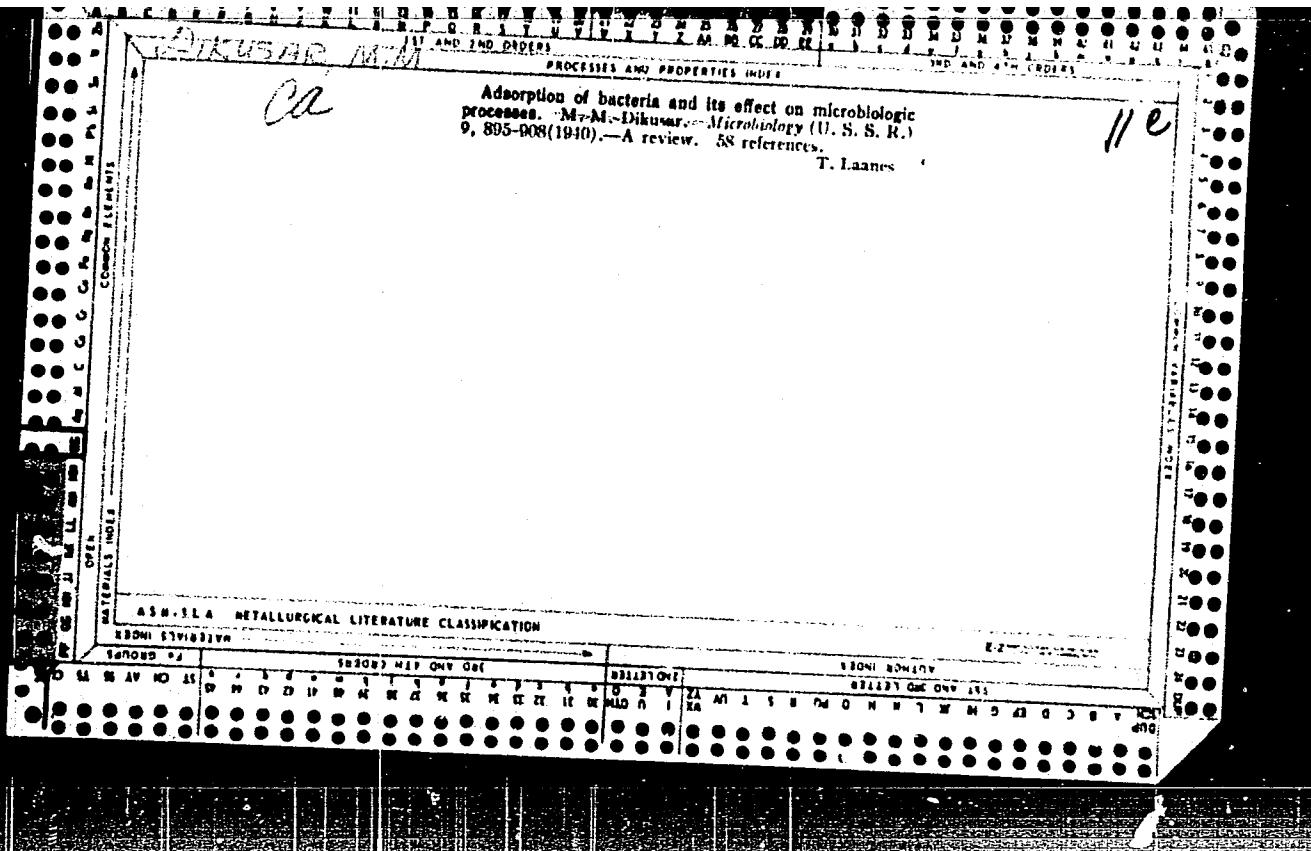
KOVARSKIY, A.Ye., red.; YAROSHENKO, M.F., red.; GEYDEMAN, T.S.,  
red.; DIKUSAR, I.G., red.; DOROKHOV, L.M., red.; ZUBKOV,  
A.A., red.; PELYAKH, M.A., red.; FURDUY, F.I., red.;  
CHEBOTAR', A.A., red.; CHORIK, F.P., red.; BOLIYEVA, L.,  
red.

[Transactions of the Third Conference of Young Moldavian Sci-  
entists] Trudy III nauchnoi konferentsii molodykh uchenykh  
Moldavii. Kishinev, Kartia moldoveniaske. No.2.[Biological  
and agricultural sciences] Biologicheskie i sel'skokhozai-  
stvennye nauki. 1964. 273 p. (MIRA 17:8)

1. Nauchnaya konferentsiya molodykh uchenykh Moldavii, 3d.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9



APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9"

✓ The role of humus and microorganisms in nutrition of higher plants under conditions of water and sand cultures. M. G. Chichovskij and M. M. Dikusar. *Izv. Tomsk. Univ.* *Sel'skokhoz. Akad.* 1933, No. 2, 173-91. --Wheat, rye, and corn were grown in soil, and sand culture with and without H<sub>2</sub>O-soil humus or Na humate as compared with Kure nutrient sand. In unsterilized cultures, the humus and Na humate proved to be a pos. factor, especially in the development of a deeper root system. Under sterile condition the humus substances were inactive. 45 references.  
J. S. Joffe

COUNTRY : USSR  
CATEGORY : PLANT PHYSIOLOGY. Mineral Nutrition. I  
ABS. JOUR. : REF ZHUR. BIOLOGIYA, NO. 4, 1959,  
AUTHOR : Dikusar, M.M. No. 15276  
INST. : Timiryazev Agric. Acad.  
TITLE : The Role of Organic Substances and Microorganisms in Root Nutrition of Higher Plants.

ORIG. PUE. : Izv. Timiryazevsk. s.-kh. akad., 1957,  
No. 5, 17-24  
ABSTRACT : To Lutescens 62 wheat in aqueous cultures with 1/2 Knop solution there were introduced PNK containing  $P^{32}$  and methionine or vitamin  $B_1$  containing  $S^{35}$  with an activity of 29,000 pulses/minute per 100 ml. With sterile procedure for the introduction of methionine the leaves had an activity of 9,600 pulses per minute in 100 g of dry mass after 3 - 4 hours; with vitamin  $B_1$  supplement it was almost 6-fold less, and with PNK 140-fold less.

CARD: 1/3

COUNTRY :  
CATEGORY : PLANT PHYSIOLOGY.  
ABS. JOUR. : REF ZHUR. BIULOGIYA, NO. 4, 1959. I  
AUTHOR :  
INST. :  
TITLE :

No. 15276

ORIG. PUB. :

ABSTRACT : Under nonsterile conditions the process proceeded twice as slowly, and there was no improvement in the development of the plants as compared with sterile conditions. The addition of humic acid and carbon intensified the intake of mineral P<sub>2</sub>O<sub>5</sub> (1.5 - 1.3-fold) and retarded the intake of PNK (2-fold). Colloids introduced into the nutrient solution strengthened the transfer process of the previously absorbed P<sub>2</sub>O<sub>5</sub> from the part of

CARD: 2/3

CHIZHEVSKIY, M.G., prof., doktor sel'skokhoz.nauk; DIKUSAR, M.M., kand.  
biolog.nauk

Effect of different types of natural organic matter on the development  
of azotobacter and its nitrogen fixing ability. Izv.TSKhA  
no.3:69-80 '59. (MTSA 12:10)  
(Azotobacter)

CHAPLYGIN, Fedor Aleksandrovich; DIKUSAR, V.V., red.; SYCHKIN, A.M.,  
tekhn. red.

[Followers of IAroslav Chizh in Os'a District] Posledovateli  
IAroslava Chizha v osinskikh kolkhozakh. Perm', Permskoe knizhnoe  
izd-vo, 1960. 21 p.  
(MIRA 14:12)

1. Sekretar' Osinskogo rayonnogo komiteta Kommunisticheskoy partii  
Sovetskogo Soyuza (for Chaplygin).  
(Perm Province--Swine)

YUDKIN, Fedor Mikhaylovich, prof., doktor sel'khoz. nauk; DIKUSAR, V.V.,  
red.; FILIPPOVA, K.G., tekhn. red.

[Practices of Perm Province vegetable growers] Opyt ovoshchegovodov  
Permskoi oblasti; sbornik statei. Perm', Permskoe knizhnoe izd-vo,  
1960. 89 p.  
(MIRA 14:10)

1. Permskiy sel'skokhozyaistvennyy institut imeni D.N.Pryanishnikova  
(Fedor Yudkin).

(Perm Province—Vegetable gardening)

MINDOVSKIY, Valentin Leonidovich; DUKUSAR, V.V., red.; FILIPPOVA, K.G.,  
tekhn.red.

[Planting trees and shrubs; brief manual for large-scale  
landscape work] Posadka derev'ev i kustarnikov; kratkoe  
posobie dlja massovykh rabot po ozeleneniju. Perm', Permskoe  
knizhnoe izd-vo, 1960. 38 p.  
(Tree planting) (Shrubs) (MIRA 14:2)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9

DIKUSAR, V. V.

Dissertation: "Method of Vacuum-Processing of Concrete and Reinforced-Concrete hydraulic structures in Central Asia." Cand Tech Sci, Tashkent Institute of Engineers of Irrigation and Mechanization of agriculture (TIIIMSKh), 29 Jun 54. (Pravda Vostoka, Tashkent, 8 Jun 54)

SO: COM 318, 23 Dec 1954

*Method of vacuum processing  
of concrete and reinforced concrete  
structures in Central Asia.*

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9"

DIKUSAR, V.V., kandidat tekhnicheskikh nauk.

Concerning the article "Concreting the buildings of hydroelectric power stations with the aid of concrete pumps." Bet. i zhel.-bet. no.12:452 D '56.  
(MLRA 10:2)

(Concrete construction)

AUTHOR: Dikusar, V. V., Candidate of Technical Science. SOV/100-58-5-13/15

TITLE: New Excavator Mounted on Tyred Wheels. (Novyy eksk-  
avator na pnevmokolesnom khodu).

PERIODICAL: Mekhanizatsiya Stroitel'stva, 1958, Nr 5, p 32.

ABSTRACT: Description of a hydraulically operated Swedish excavator system "Plessi". This excavator was improved by an English firm. There is one illustration.

1. Earth moving equipment--Design    2. Tires--Applications

Card 1/1

DIKUSAR, V.V., kand.tekhn.nauk; FRIDENTAL', S., inzh.

Unit for transporting the concrete mix at the construction site.  
Mekh. stroi. 19 no.5:21-23 My '62. (MIRA 15:5)  
(Concrete---Transportation)  
(Pneumatic-tube transportation)

DIKUSAR, V.V., kand. tekhn. nauk

Pneumatic feed of the concrete mix at plants producing precast reinforced concrete. Bet. i zhel.-bet. 9 no. 3:128-130 Mr '63.  
(MIRA 16:4)

(Pneumatic conveying)  
(Concrete—Transportation)

ZIMNEVICH, N.P., dotsent; DIKUSAR, V.V., dotsent, kand.tekhn.nauk

"Instructions for the techniques of transporting and distributing a concrete mix by means of concrete pumps and pneumatic blowers" by M.A. Lipovetskii. Reviewed by N.P. Zimnevich, V.V. Dikusar. Prom. stroi. 41 no.2:62-63 F '63.

(MIRA 16:3)

1. Gosudarstvennoye upravleniye po stroitel'stvu metallurgicheskikh zavodov v Magnitogorske (for Zimnevich).
2. Magnitogorskiy gorno-metallurgicheskiy institut im. Nosova (for Dikusar).

(Concrete—Transportation)  
(Lipovetskii, M.A.)

DIKUSAR, V.V., kand. tekhn. nauk; FRIDENTAL', S.Kh.; GORBOVETS,  
M.N., inzh., red.

[PDM-1 device for the pneumatic transportation of concrete  
mix; practices of the "Magnitostroi" Trust] Ustanovka PDM-1  
dlia pnevmaticheskogo transportirovaniia betonnoi smesi; iz  
opyta tresta "Magnitostroi." Moskva, Stroizdat, 1964. 28 p.  
(MIRA 17:12)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii,  
mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stu.
2. Glavnyy inzhener Upravleniya mekhanizatsii tresta Gosu-  
darstvennogo upravleniya po stroitel'stu metallurgicheskikh  
zavodov v Magnitogorske (for Fridental').

DIKUSAR, V.V., kand. tekhn. nauk

Pneumatic concrete conveying in road construction. Stroi. i dor.  
mash. 10 no.4:27-30 Ap '65.  
(MIRA 18:5)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9

DIKUSAR, V.V., kand. tekhn. nauk; FRIDENTAL, S.Kh., inzh.

Using a modernized unit for pneumatic conveying of concrete mixes.  
Prom. stroi. 42 no.3:18-19 '65.  
(MIRA 18:7)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9"

Dikushin

## PHASE I BOOK EXPLOITATION

SOT/3921

*Novye i elektricheskiye i ultrazvukovoye obrabotivaniye materialov (New Developments in Electrical and Ultrasonic Machining of Materials)*  
 [Leningrad], Lenizdat, 1959. 281 p., 5,000 copies printed.

Ed. (title page): L.Ya. Popilov; Ed. (inside book): S.I. Borschhev-

s'kaya Tech. Ed.: P.S. Schirnov.

PURPOSE: This book is intended for technical personnel and produc-

tion workers.

COTRADE: This is a collection of 20 articles presented at the Third All-Union Conference of the Scientific and Technical Society of the Machine Industry on Electrical and Ultrasonic Machining of Metals, held in Leningrad. The articles deal with the latest achievements in the field of electrical and ultrasonic machining of metals. New methods of machining presently being developed are described. References follow several of the articles.

Livshits, A.B., S.S. Podlazov, A.P. Prosvetov, and A.I. Aronov. Some Problems in the Technology and Design of Machines for Electroerosion Machining of Metals

Borschhev, I.S. Electric-pulse Generators of Unipolar Pulses for Electroerosion Machining of Metals

Machlinin, E.Ya. Electrical-Pulse Machining of Metals for Die-Cores

Rabinovskiy, A.G. Intensity of Metal Removal and Surface Quality in Electrosliding Machining of Carbides

Khushkin, O.A. Selection of Process Regimes in Electrolytic Con-

tinuous Machining

Gutkin, B.D. Electric-Resistance Machining of Metals

Yarzgorodsky, I.Z. New Uses of Heating in Electrolytes

Slobodcikov, V.A. Cleaning and Degreasing of Parts and Intensifica-

tion of Electroplating With the Aid of Ultrasound

Dorzhchev, N.J. Technique of Ultrasonic Machining of Carbide

Dies

Vereshchagin, V.V. Production of Magnetostrictive Transducers for

Ultrasonic Machines for Machining Carbides

Mezhnikov, B.M. Ultrasonic Machining of Parts Made of Ceramic

Materials

Rondrus, D.B. Ultrasonic Units Developed by ORB PRO

Krasnolut', M.M. Spot Welding With the Use of Ultrasonics

Babiley, O.I., and B.Ye. Michalev. Methods of Ultrasonic Analysis

and Inspection

AVAILABLE: Library of Congress (77 1191 .P 63)

Card 4/3

VCPW/b  
6-12-60

(6)

VAL'KOV, A.M., inzh.-polkovnik v otstavke; KUSTOV, A.I., polkovnik intendantskoy sluzhby v otstavke; DERBENEVA, Ye.P., sluzhchchaya Sovetskoy Armii agronom; TRUTNEV, N.F., polkovnik intendantskoy sluzhby zapasa; RYABOV, I.G., polkovnik intendantskoy sluzhby v otstavke; LUPPOV, A.P., polkovnik zapasa; DIKUSHIN, V.F., general-mayor tekhnicheskikh voysk v otstavke; LAVROV, I.A., podpolkovnik med. sluzhby; DMITRIYEV, N.D., polkovnik veterinarnoy sluzhby zapasa; IVANOVTSOV, P.V., podpolkovnik veter. sluzhby kand. veter. nauk; SAFRONOV, I.V., general-leytenant v otstavke; ZHALKOV, S.I., red.

[Unit administrator's manual] Spravochnik voiskovogo khoziaistvennika. Moskva, Voenizdat, 1965. 462 p.  
(MIRA 18:6)

CHUDAKOV, Ye.A., akademik, glavnyy redaktor; AKOPOV, S.A., redaktor; ARTOBOL'EVSKIY, I.I., redaktor; ACHERKAN, N.S., redaktor; BEZPROZVANNYY, I.M., redaktor; GUDTSOV, N.T., redaktor; DIKUSHIN, V.I., redaktor; YEFREMOV, A.I., redaktor; ZAPOROZHETS, V.K., redaktor; ZIMIN, A.I., redaktor; KAZAKOV, N.S., redaktor; KIRPICHEN, M.V., redaktor; KOVAN, V.M., redaktor; KONYUSHAYA, Yu.P., redaktor; LIPGART, A.A., redaktor; MALYSHEV, V.A., redaktor; MARTENS, L.K., redaktor; MARIYENBAKH, L.M., redaktor; NIKOLAEV, G.A., redaktor; ODING, I.A., redaktor; PATON, Ye.O., redaktor; RAMZIN, L.K., redaktor; RUBTSOV, N.N., redaktor; SAVERIN, M.A., redaktor; SEMEN-CHENKO, I.I., redaktor; SHIRESIN, S.V., redaktor; SHAMNI, N.A., redaktor; SHELEST, A.N., redaktor; SHUKHAL'TER, L.Ya., zamestitel' glavnogo redaktora, redaktor; YAKOVLEV, A.S., redaktor.

[Machine construction encyclopedic handbook] Mashinostroenie; entsiklopedicheskii spravochnik. Part 1. [Engineering calculations in machine construction] Inzhenernye raschety v mashinostroenii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, Vol. 1. no.1. 1947. 548 p.

(Mechanical engineering)

(MLRA 8:1)

DIKUSHIN, V. I.

USSR/Engineering - Machine Building Dec. 51

"In the Commission on Machine Building Technology at the Institute of Machine Studies, Academy of Sciences USSR," N. F. Kazakov, Sci Secy of Commission

"Iz Ak Nauk SSSR, Otdel Tekh Nauk": No 12, pp 1886-1888.

Describes. Oct 1951 session. Chairman - V. I. Dikushin, Corr Mem, Acad Sci USSR. Following sections created: machining, A. I. Kashirin, pressure processing, S. I. Gubkin; foundry, L. I. Fantalov; strengthening technology, E. A. Stael'; precision and interchangeability, I. Ye. Gorodetskiy; surface quality, P. Ye. D'yachenko; automatization of technological processes, V. I. Dikushin. Commission unifies more than 200 prominent scientists and workers of machine-building industry. Commission held expanded session on application of mineral-ceramic materials for high-speed cutting tools.

PA 205T1

RESHETOV, D.N., professor, doktor tekhnicheskikh nauk. Rukovoditel' raboty;  
LEVINA, Z.M.; KAMINSKAYA, V.V.; DIKUSHIN, V.I., redaktor, chlen korrespondent.

[Calculation tables for milling machine parts] Tablichnye raschety detalei  
stankov. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1952-  
v.1. [Calculation of gear and belt drive, calculation of shafts, calculation  
of roller bearings] (MLRA 6:7)

1. Eksperimental'nyy nauchno-issledovatel'skii institut metallorezhushchikh  
stankov. 2. Akademiya nauk SSSR (for Dikushin).

(Milling machines--Tables, calculations, etc.)

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CIA-RDP86-00513R000410410002-9

DIKUSHIN, V.I., KAZAKOV, N.F.

Research, Industrial

Coordination and generalization of scientific research. Vest. AN SSSR, 22, No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952, Unclassified.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9

RYZHKOV, D.I.; DIKUSHIN, V.I., akademik, redaktor.

[Results of eliminating vibrations in rapid machining] Opyt  
ustранения вибрации при скоростном точении. Москва, Изд-во  
Академии наук СССР, 1953. 22 p.  
(Cutting tools) (Vibration) (MLRA 7:6)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9"

DIKUSHIN, V. I.

USSR/Engineering

FD 264

Card 1/1

Author : Dikushin, V. I., Academician

Title : Development of research on automatization of machine-building processes

Periodical : Iz. Ak. Nauk SSSR, OTN, 1, 14-23, Jan 1954

Abstract : Briefly describes general state of problems of automatization of the technological processes of machine building and presents the most important problems to be solved in order to speed up automatization in U.S.S.R.

Institution: Academy of Sciences of the USSR

Submitted : January 6, 1954

USSR/Miscellaneous

Card 1/1 Pub. 124 - 3/26

Authors : Artobolevskiy, I. I.; Blagonravov, A. A.; and Dikishin, V. I., Academicians

Title : Modern theory of machines and its problems

Periodical : Vest. AN SSSR 12, 21-29, Dec 1954

Abstract : The importance of the development of new theoretical bases for machine design and construction - theory of machines and mechanisms - for the improvement of living conditions of the Soviet people, is explained.

Institution : ...

Submitted : ...

DIKUSHIN, V.I.

DIKUSHIN, V.I., akademik, redaktor; KARATYGIN, A.M., kandidat tekhnicheskikh  
nauk, redaktor; TIMHONOV, A.Ya., tekhnicheskiy redaktor

[Friction and wear in metal cutting] Trenie i iznos pri rezaniï me-  
tallov. Pod obshchey red. V.I.Dikushina. Moskva, Gos.nauchno-tekhnik.  
izd.-vo mashinostroitel'noi lit.-ry, 1955. 140 p. (MLRA 9:1)

1. Akademiya nauk SSSR. Komissiya po tekhnologii mashinostroyeniya.  
(Metal cutting)

DIKUSHIN, V. I.

"Automatization of Technological Processes in Machine Construction," Acad. Sci. USSR Publishing House, Moscow, 1955

This publication contains 16 articles which were presented during the Automatization of Technological Processes Conference held during the period 16-21 November 1953. Conference was sponsored by the Inst. for Machine ~~Sciences~~ Science, AS USSR

D 494923

DIKUSHIN, V.I., akademik, redaktor; KAZAKOV, N.F.; KOPNOV, Ye.V., redaktor;  
AUZAN, N.P., tekhnicheskiy redaktor.

[Advanced technology in machine building] Perekovaia tekhnologija  
mashinostroeniia. Moskva, 1955. 735 p. (MLRA 9:1)

1. Akademiya nauk SSSR. Komissiya po tekhnologii mashinostroyeniya.  
(Machinery industry)

DIKUSHIN, V. I., KULEBAКIN, V. S., BLAGONRAVOV, A. A., and ARTOBOLEVSKIY, I. I. Academicians

"Aims of the Technical Sciences in Developing Machines and Technological processes in Connection With Automation" a paper given at the Conference on Scientific Problems of Production Automation, Moscow State U. 15-20 Oct 1956.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9

DIKUSHIN, V. I. , ed.

N/5  
741.416  
.d5

Smazka Metallorezhushchikh stankov; spravochnye posobiye ( Lubrication of metal-cutting lathes) Moskva, Mashgiz, 1956.

210 p. illus., diagrs., tables.

Bibliographies throughout.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9"

RASKATOV, V.M.; DIMITRIEV, V.I., akademik, redaktor; KOPNOV, Ye.V., redaktor;  
MOSKVICHEV, N.I., tekhnicheskiy redaktor.

[Automatizing the technical processes in machine building; drive  
and operation of machines] Avtomatizatsiya tekhnologicheskikh pro-  
cessov v mashinostroenii; privod i upravlenie mashinami. Moskva,  
1956. 223 p.

1. Akademiya nauk SSSR. Institut mashinovedeniya. Komissiya po tekhnico-  
legii mashinostroyeniya.  
(Machinery industry) (Automatic control)

RASKATOV, V.M.; DIKUSHIN, V.I., akademik, otvetstvennyy redaktor;  
MOSKVICHIEVA, N.I., tekhnicheskii redaktor

[Automatization of the technological processes in machine  
construction; the machining of metals and the general problems  
of automation] Avtomatizatsiya tekhnologicheskikh protsessov  
v mashinostroenii; obrabotka metallov rezaniem i obshchie voprosy  
avtomatizatsii. Moskva, 1956. 326 p.  
(MLR 9:9)

1. Akademiya nauk SSSR. Komissiya po tekhnologii mashinostroyeniya.  
(Automatic control) (Machine tools)

*DIKUSHIN, V. I.*

112-3-6239

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957,  
Nr 3, p. 169 (USSR)

AUTHOR: Blagonravov, A., Artobolevskiy, I., Dikushin, V.,  
Kulebakin, V.

TITLE: Problems of the Technical Sciences in the Development of  
Machines and Technological Processes for Automation  
(Zadachi tekhnicheskikh nauk v razvitiyi mashin i tekhnologicheskikh protsessov v svyazi s avtomatizatsiyey)

PERIODICAL: Prom.-ekon. gaz., 1956, 26 Oct., Nr 116, pp. 2-3;  
28 Oct., Nr 117, pp. 2-4

Also - a) AUTOMATIKA I TELEMECHANIKA No. 2,

p. 180-192, 1957

ABSTRACT: Bibliographic entry.

Card 1/1

b) READ AT THE MEETING OF THE SCI. SOC.  
USSR, ON SCIENTIFIC PROBLEMS OF AUTO-  
MATIC PRODUCTION, 16-20 OCTOBER, 1956.

DIKUSHIN, V. I. (Acad.)

"Results of Work of Convention on Automation in the Machine-building Industry,"  
paper read at the Session of the Acad. Sci. USSR, on Scientific Problems of Automatic  
Production, 15-20 October 1956.  
Avtomatika i telemekhanika, No. 2, p. 182-192, 1957.

9015229

DIKUSHIN, V.I.

PHASE I BOOK EXPLOITATION 301

Sovremennyye napravleniya v oblasti tekhnologii mashinostroyeniya;  
sbornik (Modern Trends in the Field of Machine Building Tech-  
nology; Collection of Articles) Moscow, Mashgiz, 1957. 363 p.  
5,000 copies printed.

Gen. Ed.: Gokuna, B.V.; Tech. Ed.: Sokolova, T.F.; Eds.:  
Acherkan, N.S., Honored Worker in Science and Technology;  
Boguslavskiy, B.L., Professor; Glizmanenko, D.L., Candidate of  
Technical Sciences; Rabinovich, B.V., Candidate of Technical  
Sciences; Rakhshtadt, A.G., Candidate of Technical Sciences;  
Sasov, V.V., Candidate of Technical Sciences; Storozhev, M.V.,  
Candidate of Technical Sciences.

Managing Ed. for literature on metalworking and machine-tool building,  
(Mashgiz): Beyzel'man, R.D.

PURPOSE: This book is intended for engineers and technologists in  
machine building plants and scientific research institutes, as  
well as for students attending technical vuzes.

Card 1/10

Modern Trends in the Field (Cont.)

301

**COVERAGE:** This collection of articles reflects the present-day status and trends in the development of machine building technology. It includes materials on problems of manufacturing high-quality machines with a minimum expenditure of labor, featuring high technological precision and high labor productivity based on the automation of technological processes. Basic problems encountered in automation processes as well as in the production of machine parts, starting with modern methods of preparing blanks and ending with machine assembling are clarified. The following topics are discussed at length: problems encountered in founding, cold and hot stamping, welding, powder metallurgy, machining and heat treatment, assembling, electric and ultrasonic methods of machining. Problems related to precision as well as dimension- and technological analysis of machine designs, prospects for the development of defect-detecting methods, interchangeability, and adjustment of production. For references, see Table of Contents.

TABLE OF  
CONTENTS:

Foreword

3

Card 2/10

Modern Trends in the Field (Cont.) 301

Dikushin, V.I., Academician. Problems in the Automation of Machine-building Processes.

7

The article reviews and discusses some of the basic problems encountered in the Soviet machine-building industry as a result of automation or attempts to introduce it. There are no references.

Kovan, V.M., Professor, Doctor of Technical Sciences. Present-day Status and Problems in the Technology of Machining and Assembling.

22

The author stresses the importance of automation and reviews the effect caused by the introduction of progressive automation methods on the labor productivity levels. There are 8 references of which 5 are Soviet and 3 in English.

Balakshin, B.S., Doctor of Technical Sciences, Professor. Use of the "Dimension Chains" Theory in the Development and Completion of Technological and Production Processes.

34

The author shows that proper utilization of basic rules  
Card 3/10

Modern Trends in the Field (Cont.)

301

underlying the theory of "dimension chains" may allow for a greater efficiency, especially in calculating and planning automatic lines. There are no references.

Gorodetskiy, I.Ye., Professor, Doctor of Technical Sciences (Deceased). New Tasks in the Field of Technical Measurements. 49

The article describes the strides attained in measurement technology and discusses various aspects of active control. There are no references.

Lyandon, Yu.N., Candidate of Technical Sciences. Present-day Status of the Theory of Calculating Tolerances. 58

The article provides information on geometrical allowances, dimensioning, stresses, kinematic precision, principle of inversion, and analyzes the relationships within the system of allowances. There are 5 references of which 4 are Soviet and 1 German.

Dunayev, P.F., Docent, Candidate of Technical Sciences. Methods and Significance of Dimensional- and Technological Analysis of Machine Parts During Their Construction Process. 80

Card 4/10

Modern Trends in the Field (Cont.)

301

The author discusses aspects of dimensional and technological analysis of machine piece parts in relation to the machine as a whole and as a part of assemblies and mechanisms and as a part of independent machine elements. There are 9 Soviet references.

Novikov, M.P., Candidate of Technical Sciences. Present-day Status and Problems in Machine Assembling.

99

Some of the more progressive mass-assembly methods employed by certain Soviet machine-building plants are briefly reviewed here.

Bilik, Sh.M., Doctor of Technical Sciences. Present-day Methods of "Liquid Jet" Polishing of Metals.

115

The author presents a detailed description of the equipment designed for surface polishing of metals with abrasive particles in a liquid jet. A discussion is included on the technological parameters of this process. There are 13 references of which 9 are Soviet, 2 English, 1 German, and 1 Hungarian.

Card 5/10

Modern Trends in the Field (Cont.)

301

Livshits, A.L., Candidate of Technical Sciences. Present-day Status and Trends in the Development of Electrical Methods of Processing Metals.

136

The article reviews some of the most up-to-date methods employed in the USSR. There are no references.

Barke, V.N., Engineer, and Livshits, A.L., Candidate of Technical Sciences. Present-day Status and Trends in the Development of Ultrasonic Processing of Materials.

152

The authors present a brief outline of the underlying mechanical and hydrodynamic hypothesis of ultrasonics and a description of an ENIMS-built device. There are 3 references of which 2 are Soviet and 1 English.

Mariyebakh, L., Doctor of Technical Sciences, Professor. Present-day Status and Problems in the Technology of Founding.

165

The article presents information on the present status and objectives of Soviet founding, the availability of raw materials, equipment employed in Soviet foundries, and describes the techniques employed in making castings of iron, steel, and nonferrous metals. There are 84 Soviet references.

Card 6/10

Modern Trends in the Field (Cont.)

301

Storozhev, M.V., Candidate of Technical Sciences. Present-day Status and Problems in the Technology of Forging and Stamping. 189

The author reviews in detail some of the more urgent problems encountered in forging and stamping operations. He stresses the fact that only some of the stamping operations are automated. There are 24 Soviet references.

Meshcherin, V.T., Professor, Doctor of Technical Sciences. Present-day Status and Problems in the Technology of Sheet Stamping

214

The author outlines and discusses the following factors effecting labor productivity: 1) technological features of piece parts stamped out of sheet metal 2) quality of sheet metal 3) technological processes 4) full utilization of the productive capacity of the press 5) deformation rates, and 6) perfection of equipment. Working conditions, precision of stamped piece parts, cost of dies, etc., are also discussed. There are no references.

Card 7/10

Modern Trends in the Field (Cont.)

301

Rakovskiy, V.S., Candidate of Technical Sciences. Present-day Status and Problems in Powder Metallurgy.

246

The author reviews some of the theoretical problems confronting powder metallurgy and describes briefly some of the modern methods of making metal powders. There are no references.

Lyubavskiy, K.V., Professor, Doctor of Technical Sciences, and Yarovinskiy, L.M., Candidate of Technical Sciences. Present-day Status and Some Problems in the Technology of Arc Welding.

258

The article contains data on Soviet practices involving welding with high-grade electrodes, automatic and semi-automatic fusion welding, shielded arc welding, and submerged melt welding. There are 75 Soviet references.

Gulyayev, A.P., Professor, Doctor of Technical Sciences. Problems in Present-day Metallography.

281

The article describes some of the problems encountered in refining metals, and discusses the physical and mechanical properties of pure and alloyed metals. There are no references.

Card 8/10

Modern Trends in the Field (Cont.)

301

Minkevich, A.N., Candidate of Technical Sciences. Present-day Status and Objectives in Chemical-and Heat Treatment [of Metals]. 290

The author reviews existing Soviet practices of normalizing, annealing, hardening, tempering, and casehardening of metals and metal alloys in general, and nitriding of steels in particular. Data are included on new steel cementation processes and equipment, aluminum coating of steel and cast iron, chrome-plating of steel, and surface treatment of piece parts with boron. There are 24 references, of which 17 are Soviet, 1 Polish, and 6 English or translated from English.

Yeremin, N.I., Candidate of Physical and Mathematical Sciences. Physical Methods Used in the Quality Control of Metals.

313

The article presents a brief discussion of some of the latest methods of detecting structural defects in metals. The use of X-ray and gamma-rays, ultrasonics, and magnetic and luminescent methods is described. There are no references.

Card 9/10

Modern Trends in the Field (Cont.) 301

Gokun, V.B., Candidate of Technical Sciences. Basic Methods  
of Testing Machine Design During the Production Process.

The author presents an outline of appropriate tests ex-  
tending from the design of an experimental prototype to the  
completion of a series of test models.

333

AVAILABLE: Library of Congress

Card 10/10

JG/ad  
9-18-58

DIKUSHIN, V. I.

"Construction of Systems for a Preset Control of Machine Tools."

report presented at the Conference on Automation and Computation Engineering,  
Moscow, 5-8 March 1957. Organized by AV Ssi. Eng. and Tech. Society for  
Apparatus Building.

Mbr. Acad., Sci Res & Exptl Inst. Machining Tools

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9

DIKUSHIN, V.I., akademik.

Life and activities of Academician I.I. Artobolevskii. Trudy Inst.  
mash. Sem. po teor. mash. 17 no.65:29-36 '57. (MIRA 10:12)  
(Artobolevskii, Ivan Ivanovich, 1905-)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9"

DIKUSHIN, V.I.

25(1)

PHASE I BOOK EXPLOITATION

SOV/1491

Akademija nauk SSSR. Institut mashinovedeniya. Komissiya po  
tekhnologii mashinostroyeniya

Issledovaniye kolebaniy metallorezhushchikh stankov pri rezanii  
metallov. (Investigation of Vibrations in Metal-cutting Machine  
Tools Occuring in the Cutting of Metals) Moscow, Mashgiz, 1958.  
292 p. 4,000 copies printed.

Eds.: V.I. Dikushin, Academician and D.N. Reshetov, Professor;  
Ed. of Publishing House: N.A. Ivanova; Tech. Eds.: Ye.S.  
Gerasimova and A.F. Uvarova; Managing Ed. for Literature on  
Metal Working and Tool Making (Mashgiz): R.D. Beyzel'man,  
Engineer.

COVERAGE: This is a collection of articles dealing with the  
problem of vibrations in metal-cutting machine tools. It  
presents a summary of results of many years of investigations  
of this problem conducted at the LPI (Leningrad Polytechnic

Card 1/5

Investigation of Vibrations (Con.)

SOV/1491

Institute imeni Kalinin) and the results of an experimental investigation of damping of vibration in machine-tool sub-assemblies and parts and of vibrations in systems with hydraulic drives. The intensities of vibration excitors in the cutting are evaluated and the nature of the self-vibrations occurring in friction and in the cutting is investigated. Various vibration damping devices and the results of an extensive experimental investigation of their effectiveness are also described. An article by N.A. Drozdov (p. 228) presents a summary of results of the investigation of vibrations in metal-cutting machine tools conducted in Czechoslovakia under the direction of Engineer I. Tlusty with the assistance of Doctor L. Shpachek and Engineer M. Polachek. The book was written on the basis of new investigations and the material presented at the 1953 conference on vibrations in the cutting of metals sponsored by the Committee on Machine-building Technology of the Institute of Mechanical Engineering of the USSR Academy of Sciences. No personalities are mentioned.

Card 2/5

Dikushin, V. I.  
21(8)

PHASE I BOOK EXPLOITATION

SOV/1764

Vsesoyuznaya nauchno-tehnicheskaya konferentsiya po primeneniyu radioaktivnykh i stabil'nykh izotopov i izlucheniyu v narodnom khozyaystve i nauke Moscow, 1957.

Trudy... Mashinostroyeniye i priborostroyeniye (Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science; Machine and Instrument Manufacturing) Moscow, Izd-vo AN SSSR, 1958. 358 p.  
4,500 copies printed.

Sponsoring Agencies: USSR. Glavnoye upravleniye po ispol'zovaniyu atomnoy energii, and Akademiya nauk SSSR.

Editorial Board of Set: V.I. Dikushin, Academicain (Resp. Ed.), N.N. Shumilovskiy (Deputy Resp. Ed.), Yu. S. Zaslavskiy (Deputy Resp. Ed.), L.K. Tatochenko, B.I. Verkhovskiy, S.T. Nazarov, L.I. Petrenko, and N.G. Zelevinskaya (Secretary).

Ed. of Publishing House: P.N. Belyanin; Tech. Ed.: T.P. Polenova.

Card 1/ 20

Transactions of the All-Union Conference (Cont.) SOV/1764

**PURPOSE:** This book is intended for specialists in the field of machine and instrument manufacture who use radioactive isotopes in the study of materials and processes.

**COVERAGE:** This collection of papers covers a very wide field of the utilization of tracer methods in industrial research and control techniques. The topic of this volume is the use of radioisotopes in the machine-and instrument-manufacturing industry. The individual papers discuss the applications of radioisotope techniques in the study of metals and alloys, problems of friction and lubrication, metal cutting, engine performance, and defects in metals. Several papers are devoted to the use of radicisotopes in the automation of industrial processes, recording and measuring devices, quality control, flowmeters, level gauges, safety devices, radiation counters, etc. These papers represent contributions of various Soviet institutes and laboratories. They were published as Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, April 4-12, 1957. No personalities are mentioned. References are given at the end of most of the papers.

Card 2/20

## Transactions of the All-Union Conference (Cont.)

SOV/1764

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Dikushin, V.I., Academician. Manufacturing	Use of Radioactive Isotopes in Machine	
Palatnik, L.S., I.M. Lyubarskiy, A.P. Lyubchenko, and V.G. Nesterenko (Khar'kovskiy politekhnicheskiy institut imeni V.I. Lenina i Khar'kovskiy zavod transportnogo mashinostroyeniya - Khar'kov Polytechnical Institute imeni V.I. Lenin, and Khar'kov Transportation-Machinery Plant). Structure and Wear Resistance of Cemented Steel		3
Stetsenko, V.I. and Ye. A. Markovskiy (Institut mashinovedeniya i sel'skokhozyaystvennoy mekhaniki AN Ukr.SSR - Institute of Mechanical Engineering and Agricultural Mechanics, Academy of Sciences, Ukr.SSR). Study of the Wear of High-strength Iron		8
Vaynshteyn, V.E., and Yu.M. Vinogradov (Institut mashinovedeniya AN SSSR - Institute of Mechanical Engineering, Academy of Sciences, USSR). Study of the Behavior of the Sulfidized Layer in Wear Processes		16
Card 3/20		19

~~DISKUSHIN V. I.~~

25(1,6)

PHASE I BOOK EXPLOITATION

SOV/1592

Akademiya nauk SSSR. Institut mashinovedeniya

Osnovnyye voprosy tochnosti, vzaimozamenyayemosti i tekhnicheskikh izmereniy v mashinostroyenii (Basic Problems of Accuracy, Interchangeability and Engineering Measurements in Machine Building) Moscow, Mashgiz, 1958. 411 p. 4,500 copies printed.

Ed.: A.N. Gavrilov, Doctor of Technical Sciences, Professor;  
Tech. Ed.: B.I. Model'; Managing Ed. for Literature on Metal Working and Tool Making (Mashgiz): R.D. Beyzel'man, Engineer.

PURPOSE: This collection of articles is intended for engineering and scientific workers and for teachers and students of machine and instrument building vтуzes.

COVERAGE: This collection of article presents the works of a conference on basic problems of accuracy, interchangeability and engineering measurements, convened in March 1956 by the Machine Building Technology Commission of IMASH AN SSSR (Institute of Machine Construction of the Academy of Sciences, USSR), the

Card 1/8

## Basic Problems of Accuracy (Cont.)

SOV/1592

State Committee for Modern Technology, the Committee for Standard Weights and Measuring Instruments under the Council of Ministers, USSR, the Ministries for Machine Building and the Ministry of Higher Education of the USSR. In the articles dealing with accuracy of fabrication, problems of the theory and practice of calculating accuracy of standard processes and standard products are discussed. In the articles on interchangeability and engineering measurements an evaluation of the present state of this field is presented along with the scientific and engineering outlook for the future. Theoretical and practical problems of automatic inspection are discussed. No personalities are mentioned. There are 140 references of which 121 are Russian, 10 German, 8 English, 1 French.

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Diskushin, V.I. Academician. Basic Problems of Accuracy, Interchangeability and Engineering Measurements in Machine Building	5
Card 2/8	

Dikushin V.I.

AUTHOR: Kobrinskiy, A. Ye., Doctor of Technical Sciences 30-2-44/49

TITLE: Programmed Control of Metal Cutting Machines (Programmnoye upravleniye metallorezhushchimi stankami.), All-Union Conference (Vsesoyuznoye soveshchaniye)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, Nr 2, pp 113-115(USSR)

ABSTRACT: This conference took place in Moscow from November 13-16, 1957. It was called by the Institute for Engineering of the AN USSR, the Experimental Scientific Research Institute for Metal Processing Machines, as well as by the Institute for Machines and Tools in Moscow. The conference aimed at the following exchange of experience and decision as to the most important work to be carried out in this field in future. The conference was attended by representatives of the Councils of Political Economy, of industry, engineering departments, scientific research institutes as well as of universities. A. A. Blagonravov, director of the Institute for Engineering opened the conference. The following reports were given:  
1) V.I. Dikushin reported on the present stage of the system of preset course in the USSR and its development.  
2) A. P. Vladziyevskiy reported on the tasks in the field of

Card 1/3

BARDIN, I.P., akademik; DYMOW, A.M., prof., doktor khim.nauk; DIKUSHIN, V.I.: akademik; TSELIKOV, A.I.; OTLEV, I.A., inzh. (g. Khimki, Moskovskoy oblasti); DEM'YANYUK, F.S., prof., doktor tekhn.nauk; RYBGIN, A.P., prof., doktor tekhn.nauk; YAKUSHEV, A.I., prof., dokt. tekhn.nauk; KIDIN, I.N., prof. dokter tekhn.nauk; KOROTKOV, V.P., dots., kand. tekhn.nauk; SHUICHGAL'TER, L.Ya., dots., kand.tekhn.nauk; KUKIN, G.N., prof., doktor tekhn.nauk.

Every specialist should know the principles of standardisation.  
Standartizatsia 22 ne. 4:34-40 Jl-Ag '58. (MIRA 11:10)

1.Chlen-korrespondent AN SSSR (for TSelikov). 2.Predsedatel' tekhnike-ekonomicheskogo soveta Mosoblesovnarkhoza (for Rybkin). 3.Direktor Moskovskogo instituta stali imeni I.V. Stalina (for Kidin). 4.Direktor Moskovskogo vechernego mashinostroitel'nogo instituta (for Korotkov).  
(Standardisation--Study and teaching)

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CIA-RDP86-00513R000410410002-9

DIKUSHIN, V.I.; BARKE, V.N.

Ultrasonic erosion and its relation to vibration characteristics of  
cutting tools. Stan. i instr. 29 no.5:19-22 My '58. (MIRA 11:7)  
(Ultrasonic waves--Industrial applications)  
(Metalworking machinery)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410410002-9"

VERKHOVSKIY, Boris Isaakovich; DIKUSHIN, V.I., akademik, otv.red.;  
ANTONYUK, L.D., red.izd-va; MARKOVICH, S.G., tekhn.red.

[Use of radioactive isotopes for production process  
control] Primenenie radioaktivnykh izotopov dlia kontrolya  
proizvodstvennykh protsessov. Moskva, Izd-vo Akad.nauk  
SSSR, 1959. 82 p. (MIRA 12:6)  
(Radioisotopes--Industrial applications)

RAYEVSKIY, Nikolay Petrovich, kand.tekhn.nauk; ARTOBOLEVSKIY, I.I., akademik, otv.red.; BLAGONRAVOV, A.A., akademik, red.; BRUYEVICH, N.G., akademik, red.; DIKUSHIN, V.I., akademik, red.; SERENSEN, S.V., akademik, red.; PINEGIN, S.V., prof., doktor tekhn.nauk, red.; LEVITSKIY, N.I., prof., doktor tekhn.nauk, red.; KOBRINSKIY, A.Ye., doktor tekhn.nauk, red.; BESSONOV, A.P., kand.tekhn. nauk, red.; BELYANIN, P.N., red.izd-va; ASTAF'YEVA, G.A., tekhn. red.

[Indicators of mechanical parameters of machines] Datchiki mekhanicheskikh parametrov maskin. Moskva, Izd-vo Akad.nauk SSSR, 1959. 186 p. (MIRA 13:1)

1. AN USSR (for Serensen).  
(Measuring instruments) (Machinery--Testing)

DIKUSHIN, V.I.

DIMENTBERG, Fedor Menas'yevich, doktor tekhn.nauk; SERENSEN, S.V., akademik, otv.red.; ARTOBOLEVSKIY, I.I., akademik, otv.red.; BLAGONRAYOV, A.A., akademik; red.; BRUYEVICH, M.G., akademik; red.; DIKUSHIN, V.I., akademik, red.; PINEGIN, S.V., prof., doktor tekhn.nauk, red.; LEVITSKIY, N.I., prof., doktor tekhn.nauk, red.; KOBRINSKIY, A.Ye., doktor tekhn.nauk, red.; RAIENSKIY, N.P., kand.tekhn.nauk, red.; BESSONOV, A.P., kand.tekhn.nauk, red.; MILEYEV, A.S., red.izd-va; KUZ'MIN, N.K., tekhn.red.; MAKUNI, Ye.V., tekhn.red.

[Bending vibrations of revolving shafts] Izgibnye kolebaniia vrashchaniushchikhsia valov. Moskva, Izd-vo Akad.nauk SSSR, 1959. 246 p.

1. Akademiya nauk USSR (for Serensen).  
(Vibration) (Shafting)